ABSTRACT

The present invention has an object to provide piezoelectric ceramics containing no lead, having a high Curie point, and further, having excellent piezoelectric properties, particularly large Qmax. The piezoelectric ceramics contain, as a main component, a bismuth layer-structured compound having $(M^{II}_{1-x}Ln_x)Bi_4Ti_4O_{15}$ crystals (M^{II} is an element selected from Sr, Ba, and Ca, Ln is an element selected from lanthanoids, and x is within a range of $0<x\leq0.5$) and further contain, as secondary components, at least one of Mn oxide and Co oxide, and lanthanoid, wherein the lanthanoid being the secondary component is contained within a range of 0.02 to 0.12wt% in terms of oxide thereof.